

Title (en)
Heat exchanger

Title (de)
Wärmetauscher

Title (fr)
Echangeur de chaleur

Publication
EP 1462749 A2 20040929 (EN)

Application
EP 04006951 A 20040323

Priority
JP 2003085291 A 20030326

Abstract (en)
A heat exchanger (1A) includes a plurality of tubes (2), a pair of header pipes (4), partition walls (11), an inlet connector block (5) and an outlet connector block (6). The plurality of tubes (2) have one ends connected to one header pipe (4) and other ends connected to the other header pipe (4). The header pipe (4) internally has a pipe-inside flow-through bore (10a, 10b). The partition wall (11) is internally formed in each header pipe (4) to divide the pipe-inside flow-through bore (10a, 10b) into two regions. Each header pipe (4) has a block connector bore (12) opening at an outer side wall (4b) opposing to an area (4a) to which the tubes (2) are connected and opening to the pipe-inside flow-through bore (10a, 10b) by cutting out a portion of the partition wall (11). The inlet connector block (5) is connected to the block connector bore (12) of one header pipe (4) to admit coolant to flow in. The outlet connector block (6) is connected to the block connector bore (12) of the other header pipe (4) to permit coolant to flow out.

IPC 1-7
F28D 1/053; **F28F 9/02**; **F28F 9/04**

IPC 8 full level
F28D 1/053 (2006.01); **F28F 9/02** (2006.01); **F28F 9/04** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP US)
F28D 1/05391 (2013.01 - EP US); **F28F 9/0204** (2013.01 - EP US); **F28F 9/0251** (2013.01 - EP US); **F28F 9/026** (2013.01 - EP US); **F28F 9/027** (2013.01 - EP US)

Citation (applicant)
JP H11325784 A 19991126 - DENSO CORP

Cited by
EP2006631A1; EP1657513A1; FR2917820A1

Designated contracting state (EPC)
DE FR GB

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